

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

(12)
DR 1088
NOVEMBER 1979

AD

LEVEL

WEATHEROLOGICAL DATA REPORT

19307B GSRS
Missile Nos. 1059 and 1093
Round Nos. V-79 and V-80
02 November 1979

by

White Sands Meteorological Team

DTIC
ELECTE
APR 3 1980
S D

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

THIS DOCUMENT IS BEST QUALITY PRACTICALLY
THE COPY FURNISHED TO DDC CONTAINED A
SIGNIFICANT NUMBER OF PAGES WHICH DO NOT
PRODUCE LEGIBLY.

DDC FILE COPY

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

80 3 28 053

DISPOSITION INSTRUCTIONS

Destroy this report when it is no longer needed. Do not return to the originator.

DISCLAIMER

The findings in this report are not to be construed as an official Department of the Army position, unless so designated by other authorized documents.

The citation of trade names and names of manufacturers in this report is not to be construed as official Government indorsement or approval of commercial products or services referenced herein.

DISCLAIMER NOTICE

**THIS DOCUMENT IS BEST QUALITY
PRACTICABLE. THE COPY FURNISHED
TO DTIC CONTAINED A SIGNIFICANT
NUMBER OF PAGES WHICH DO NOT
REPRODUCE LEGIBLY.**

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR 1088	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 19307B GSRS, Missile Numbers 1059 and 1093, Round Numbers V-79 and V-80, 2 November 1979.		5. TYPE OF REPORT & PERIOD COVERED 14 ERADCOM/ASL DR-1088
7. AUTHOR(s) 9 White Sands Meteorological Team data rpt.		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS		8. CONTRACT OR GRANT NUMBER (if any) 16 1702 DA Task 1F665702D12702
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Cmd Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 88002		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & Development Cmd Adelphi, MD 20783		12. REPORT DATE 11 November 1979
		13. NUMBER OF PAGES 14
		15. SECURITY CLASS. (of this report) UNCLASSIFIED 12 15
16. DISTRIBUTION STATEMENT (of this Report)		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) Approved for public release; distribution unlimited.		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 19307B GSRS, Missile Numbers 1059 and 1093, Round Numbers V-79 and V-80 are presented in tabular form.		

410663

JOB

CONTENTS

INTRODUCTION -----	1
DISCUSSION -----	1
TABLES:	
1. Surface Observation taken at 0900 MST at SPEC Site -----	2
2. SPEC Pilot-Balloon-Measured Wind Data at 0900 MST -----	3
3. WCI Pilot-Balloon-Measured Wind Data at 0900 MST -----	4
4. AFSWC Significant Level Data at 0930 MST -----	5
5. AFSWC Upper Air Data at 0930 MST -----	6
6. AFSWC Mandatory Levels at 0930 MST -----	10

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
NSC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or special
A	23 CP

INTRODUCTION

19307B GSRS, Missile Numbers 1059 and 1093, Round Numbers V-79 and V-80, were launched from SPEC, White Sands Missile Range (WSMR), New Mexico, at 0903 and 0903:04 MST, 02 Nov 79. The scheduled launch times were 0900 and 0900:02 MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the SPEC Met Site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

SPEC	2 km
WCI	2 km

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 78,500 feet in 500-foot increments.

SITE AND TIME

AFSWC 0930 MST

TABLE 1. Surface Observations taken at 0900 MST,
02 November 1979, at SPEC Site, 19307B
GSRS, Missile Numbers 1059 and 1093,
Round Numbers V-79 and V-80.

ELEVATION	N/A	FT/MSL
PRESSURE	862.0	MBS
TEMPERATURE	10.0	°C
RELATIVE HUMIDITY	41	%
DEW POINT	-2.6	°C
DENSITY	1056	GM/M ³
WIND SPEED	12	KTS
WIND DIRECTION	030	DEGREES
CLOUD COVER	4	CI

PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM SPEC

DATE _____

02 November 1979

TIME 0900 MST

TRACKER

COORDINATES (WSTM)

$$X =$$

N/A

$$Y =$$

N/A

11 =

N/A

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL XX OR FEET AGL .

[illegible][illegible][illegible]

PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM WCI

DATE 02 November 1979

TIME 0900 MST

Tracker

COORDINATES (WSTM)

X= 6.2 N/A

Y= N/A

11= N/A

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL XX OR FEET AGL .

[illegible][illegible][illegible]

GEODETIC COORDINATES
33.84880 LAT DEG
106.58531 LONG DEG

SIGNIFICANT LEVEL DATA
3950170113
AF50C

TABLE 4

STATION ALTITUDE 4700.63 FEET MSL
2 NOV. 79 0930 HRS MST
ASLATION NO. 140

PRESSURE	GEOMETRIC ALTITUDE	TEMPERATURE	REL. HUM.	
MILLIBARS	FEET	AIR DEWPOINT DEGREES CENTIGRADE	PERCENT	
602.0	4700.6	10.0	-2.0	41.0
650.0	5031.7	7.8	-4.0	43.0
701.0	5319.5	1.2	-8.0	48.0
751.4	5617.1	.1	-9.0	49.0
721.6	5827.0	-1.2	-14.7	35.0
707.0	5827.1	-1.2	-15.4	33.0
653.0	5809.4	.7	-14.1	32.0
654.8	5873.5	-1.0	-15.0	32.0
617.0	5831.3	-1.7	-10.2	32.0
573.2	5844.1	-5.0	-15.0	32.0
509.0	5821.2	-13.2	-20.0	33.0
445.6	5873.9	-20.9	-33.2	32.0
432.3	5871.3	-21.4	-24.2	78.0
417.0	5833.6	-24.0	-25.2	90.0
409.0	5839.9	-76.1	-78.0	03.0
360.2	5807.5	-29.2	-32.2	75.0
325.6	5805.0	-34.7	-39.2	63.0
306.0	5805.3	-40.2	-44.2	65.0
264.4	5802.4	-47.0	-50.2	69.0
230.0	5870.1	-49.9		
220.6	5872.2	-54.6		
215.0	5812.6	-56.1		
200.0	5823.0	-55.9		
196.6	5834.9	-56.9		
181.2	5809.1	-54.0		
167.5	5814.3	-54.8		
150.0	5803.3	-57.9		
127.2	5805.3	-61.1		
120.0	5805.1	-63.5		
116.6	5807.4	-61.2		
113.0	5873.7	-64.8		
89.5	5803.3	-65.4		
77.9	5870.0	-62.7		
70.0	5849.1	-64.0		
57.8	5807.1	-61.4		
50.0	5803.5	-55.2		
38.0	7310.6	-56.6		
30.0	78597.1	-55.4		

STATION ALTITUDE 4700.03 FEET MSL
2 NOV. 79
ASCL. SIO. NO. 149

UPPER AIR DATA
3063170140
AFS JC

GEODETIC COORDINATES
33.04686 LAT DEG
106.58581 LON DEG

TABLE 5

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEPT POINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND M/SEC	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4700.0	602.0	10.3	-2.0	41.0	1050.2	650.3	30.0	12.0	1.000260
5000.0	552.6	8.3	-3.7	42.0	1053.2	654.2			1.000257
5200.0	520.8	6.3	-4.6	43.0	1040.2	652.2			1.000252
5400.0	481.3	5.1	-5.6	45.1	1030.4	650.4			1.000248
5600.0	440.1	3.9	-6.9	46.2	1012.9	648.7			1.000244
7000.0	791.2	2.1	-7.9	47.3	999.6	645.9			1.000240
7500.0	770.5	.9	-8.8	48.3	985.5	643.4			1.000235
8000.0	751.9	.1	-9.3	49.0	969.0	644.5			1.000231
8500.0	747.5	-1.3	-11.0	48.2	953.3	643.9			1.000226
9000.0	733.4	-1.3	-12.0	39.2	937.1	643.3			1.000220
9500.0	719.6	-1.2	-14.7	34.8	920.8	642.6			1.000215
10000.0	703.0	-1.2	-15.2	33.0	903.3	642.0			1.000211
10500.0	682.7	-1.4	-14.8	32.6	883.7	643.7			1.000207
11000.0	679.0	.5	-14.2	32.0	864.2	644.0			1.000203
11500.0	668.3	-1.3	-14.9	32.0	850.3	643.9			1.000199
12000.0	658.3	-1.0	-15.6	32.0	830.0	643.0			1.000196
12500.0	641.9	-1.2	-15.8	32.0	821.5	642.7			1.000192
13000.0	629.8	-1.5	-16.0	32.0	806.7	642.5			1.000189
13500.0	617.8	-1.7	-16.2	32.0	792.1	642.2			1.000185
14000.0	605.1	-2.7	-17.0	32.0	779.8	641.0			1.000182
14500.0	594.5	-3.6	-17.9	32.0	767.8	639.9			1.000179
15000.0	583.2	-4.6	-18.8	32.0	755.3	639.7			1.000176
15500.0	572.0	-5.6	-19.5	32.0	744.2	637.5			1.000173
16000.0	560.9	-6.7	-20.6	32.0	732.8	639.1			1.000170
16500.0	550.3	-7.8	-21.5	32.3	721.6	634.8			1.000167
17000.0	539.5	-8.9	-23.4	32.4	710.5	633.5			1.000164
17500.0	528.7	-10.0	-23.4	32.6	693.6	632.1			1.000161
18000.0	518.5	-11.2	-24.3	32.7	680.9	630.8			1.000158
18500.0	508.4	-12.3	-25.2	32.9	670.4	629.4			1.000155
19000.0	498.4	-13.4	-26.2	33.0	660.1	626.0			1.000153
19500.0	488.4	-14.3	-27.5	32.8	650.2	623.4			1.000150
20000.0	478.6	-16.1	-28.7	32.6	640.4	624.7			1.000148
20500.0	469.0	-17.5	-30.0	32.4	630.8	623.1			1.000145
21000.0	459.6	-18.8	-31.3	32.3	620.3	621.4			1.000143
21500.0	450.4	-20.2	-32.5	32.1	620.0	619.7			1.000140
22000.0	441.3	-21.1	-29.3	47.3	609.0	618.7			1.000139
22500.0	432.5	-21.5	-24.2	78.4	593.0	618.3			1.000138
23000.0	423.4	-23.0	-24.8	85.4	589.3	616.4			1.000136
23500.0	414.4	-33.8	-35.3	85.9	603.0	602.8			1.000136
24000.0	404.9	-61.6	-63.9	74.1	666.8	560.0			1.000149

AX AND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4700.63 FEET MSL
2 NOV. 79 0930 HRS MST
ASCENDING NO. 149

UPPER AIR DATA
3060170140
AFSC

GEODETIC COORDINATES
33.64586 LAT DEG
106.58581 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FLT	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (T)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
24500.0	595.5	-71.0	69.8	601.7	555.8	273.8	36.5	1.000152
25000.0	590.5	-60.5	70.3	632.9	560.1	273.2	38.3	1.000141
25500.0	577.5	-50.0	71.9	589.0	562.0	273.0	40.3	1.000132
26000.0	566.5	-39.5	73.5	549.5	595.6	273.5	44.0	1.000123
26500.0	560.0	-29.2	74.9	515.9	608.6	274.1	47.5	1.000117
27000.0	552.4	-30.4	72.3	505.5	607.0	274.9	50.3	1.000115
27500.0	544.9	-31.5	69.7	497.3	605.5	275.2	52.4	1.000113
28000.0	537.5	-32.9	67.0	489.2	604.0	274.5	52.4	1.000111
28500.0	530.5	-34.1	64.4	481.2	602.5	275.0	52.4	1.000109
29000.0	523.2	-35.4	63.2	473.5	600.3	273.4	52.5	1.000107
29500.0	516.2	-36.9	61.1	466.0	599.0	273.2	52.7	1.000105
30000.0	509.5	-38.2	64.3	458.0	597.2	272.4	54.2	1.000103
30500.0	502.6	-39.5	64.3	451.4	595.4	271.7	55.6	1.000101
31000.0	495.9	-40.9	65.4	443.9	593.7	270.5	57.5	1.000100
31500.0	482.2	-42.2	66.2	436.2	592.1	269.2	59.1	1.000098
32000.0	473.4	-43.4	66.9	428.0	590.6	268.9	60.4	1.000096
32500.0	466.5	-44.6	67.6	421.4	589.0	269.2	61.5	1.000094
33000.0	470.5	-45.5	68.3	414.2	587.4	269.8	62.7	1.000093
33500.0	474.5	-47.0	68.5**	407.1	585.9	270.7	64.1	1.000091
34000.0	478.5	-48.2	68.1**	400.0	584.5	271.5	65.7	1.000089
34500.0	482.4	-49.4	67.2	393.0	582.7	271.5	67.4	1.000088
35000.0	486.6	-50.4	66.4	385.7	581.4	271.5	69.0	1.000086
35500.0	490.9	-51.3	65.5	378.2	580.3	270.7	70.1	1.000084
36000.0	495.2	-52.2	64.9	370.9	579.1	269.9	71.2	1.000083
36500.0	499.5	-53.1	64.1**	363.0	578.0	269.1	72.2	1.000081
37000.0	503.9	-53.9	63.2	355.0	576.8	268.4	73.2	1.000079
37500.0	508.0	-55.0	62.3	348.1	575.5	268.0	74.5	1.000078
38000.0	512.1	-56.1	61.4	340.6	574.0	269.4	76.0	1.000077
38500.0	516.2	-56.0	60.5	333.4	574.1	270.7	77.5	1.000075
39000.0	520.4	-56.0	59.6	327.4	574.1	272.5	79.1	1.000073
39500.0	524.5	-56.0	58.7	315.7	574.1	274.0	80.8	1.000071
40000.0	528.6	-56.5	57.8	312.9	573.5	274.4	82.5	1.000070
40500.0	532.7	-56.8	56.9	300.9	573.1	274.6	84.2	1.000068
41000.0	536.8	-56.7	56.0	297.2	574.5	275.0	86.3	1.000066
41500.0	540.9	-56.6	55.1	285.0	575.9	275.2	88.4	1.000064
42000.0	545.0	-54.7	54.2	282.1	575.9	275.7	89.9	1.000063
42500.0	549.1	-54.7	53.3	275.0	575.8	276.4	91.1	1.000061
43000.0	553.2	-54.8	52.4	269.2	575.7	277.0	91.8	1.000060
43500.0	557.3	-55.3	51.5	263.4	575.0	277.5	91.7	1.000059
44000.0	561.4	-55.9	50.6	258.0	574.2	277.9	91.7	1.000057

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODLTIC COORDINATES
33.64086 LAT DEG
106.56581 LON DEG

UPPER AIR DATA
300170140
ASDC

TABLE 5 (CONT)

STATION ALTITUDE 4700.63 FEET MSL
2 NOV. 79 0930 HRS MST
ASOS STATION NO. 140

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY G/CM ³ NUMBER	SPEED OF SOUND M/SEC	WIND DATA DIRECTION DEGREES (IN) SPEED KNOTS	INDEX OF REFRACTION
4430.0	157.2	-56.5		252.7	575.3	273.4	1.000056
4500.0	153.6	-57.3		247.5	572.4	273.0	1.000055
4550.0	149.7	-57.9		242.4	571.5	279.0	1.000054
4600.0	145.2	-58.4		237.1	570.9	276.7	1.000053
4650.0	140.2	-58.9		231.9	570.3	273.5	1.000052
4700.0	135.2	-59.3		225.9	569.6	277.5	1.000051
4750.0	130.9	-59.8		221.9	569.0	276.4	1.000049
4800.0	126.0	-60.3		217.1	568.4	275.5	1.000048
4850.0	121.5	-60.8		212.4	567.9	275.0	1.000047
4900.0	117.4	-61.3		207.9	567.3	274.4	1.000046
4950.0	113.5	-61.8		203.0	566.8	274.3	1.000045
5000.0	109.7	-62.4		199.8	566.4	274.5	1.000044
5050.0	106.1	-62.9		195.4	566.0	274.8	1.000043
5100.0	102.5	-63.5		190.5	565.8	275.4	1.000042
5150.0	99.0	-64.1		185.1	565.1	275.1	1.000041
5200.0	95.4	-64.7		179.8	564.5	276.9	1.000040
5250.0	91.8	-65.3		174.6	563.9	277.2	1.000039
5300.0	88.3	-65.9		169.1	562.7	277.1	1.000038
5350.0	84.7	-66.5		163.5	562.1	277.0	1.000037
5400.0	81.2	-67.1		157.8	561.0	276.9	1.000036
5450.0	77.7	-67.7		152.1	560.2	276.9	1.000035
5500.0	74.2	-68.3		146.5	559.6	276.9	1.000034
5550.0	70.7	-68.9		140.8	559.1	277.2	1.000033
5600.0	67.2	-69.5		135.2	558.5	277.1	1.000032
5650.0	63.7	-70.1		129.6	557.9	277.0	1.000031
5700.0	60.2	-70.7		124.0	557.3	277.7	1.000030
5750.0	56.7	-71.3		118.4	556.8	277.0	1.000029
5800.0	53.2	-71.9		112.8	556.0	277.1	1.000028
5850.0	49.7	-72.5		107.2	555.5	276.9	1.000027
5900.0	46.2	-73.1		101.6	555.0	276.9	1.000026
5950.0	42.7	-73.7		96.0	554.5	276.9	1.000025
6000.0	39.2	-74.3		90.4	554.0	276.9	1.000024
6050.0	35.7	-74.9		84.8	553.5	276.9	1.000023
6100.0	32.2	-75.5		79.2	553.0	276.9	1.000022
6150.0	28.7	-76.1		73.6	552.5	276.9	1.000021
6200.0	25.2	-76.7		68.0	552.0	276.9	1.000020
6250.0	21.7	-77.3		62.4	551.5	276.9	1.000019
6300.0	18.2	-77.9		56.8	551.0	276.9	1.000018
6350.0	14.7	-78.5		51.2	550.5	276.9	1.000017
6400.0	11.2	-79.1		45.6	550.0	276.9	1.000016
6450.0	7.7	-79.7		40.0	549.5	276.9	1.000015
6500.0	4.2	-80.3		34.4	549.0	276.9	1.000014
6550.0	0.7	-80.9		28.8	548.5	276.9	1.000013
6600.0		-81.5		23.2	548.0	276.9	1.000012
6650.0		-82.1		17.6	547.5	276.9	1.000011
6700.0		-82.7		12.0	547.0	276.9	1.000010
6750.0		-83.3		6.4	546.5	276.9	1.000009
6800.0		-83.9		0.8	546.0	276.9	1.000008
6850.0		-84.5			545.5	276.9	1.000007
6900.0		-85.1			545.0	276.9	1.000006
6950.0		-85.7			544.5	276.9	1.000005
7000.0		-86.3			544.0	276.9	1.000004
7050.0		-86.9			543.5	276.9	1.000003
7100.0		-87.5			543.0	276.9	1.000002
7150.0		-88.1			542.5	276.9	1.000001
7200.0		-88.7			542.0	276.9	1.000000

GEODETIC COORDINATES
33.04086 LAT DEG
106.58581 LONG DEG

UPPER AIR DATA
3050170140
AF3MC

STATION ALTITUDE 4700.63 FEET MSL
2 NOV 79 0930 HRS MSL

500.15104 NO. 140

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY G/CM ³ METER	SPEED OF SOUND M/SEC	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
64500.0	58.8	-61.6		90.8	586.0	247.9	13.3	1.000022
63000.0	57.4	-61.1		94.3	587.5	254.4	14.9	1.000021
61500.0	56.0	-60.1		93.0	588.7	260.4	16.7	1.000020
60000.0	54.7	-59.0		89.0	578.1	265.1	18.7	1.000020
58500.0	53.4	-58.0		86.4	571.4	267.4	18.9	1.000019
57000.0	52.1	-57.0		84.0	574.8	269.7	19.1	1.000019
55500.0	50.9	-55.9		81.0	574.2	271.9	19.4	1.000018
54000.0	49.7	-55.2		79.4	575.1	269.4	17.1	1.000018
52500.0	48.5	-55.4		77.0	574.9	265.3	14.6	1.000017
51000.0	47.4	-55.5		75.8	574.7	259.0	12.3	1.000017
49500.0	46.2	-55.7		74.1	574.5	246.9	9.3	1.000016
48000.0	45.2	-55.8		72.4	574.3	218.7	6.9	1.000016
46500.0	44.1	-56.0		70.7	574.1	190.0	7.1	1.000016
45000.0	43.1	-56.1		69.1	573.9	168.0	8.7	1.000015
43500.0	42.0	-56.3		67.5	573.7	199.2	9.3	1.000015
42000.0	41.1	-56.4		66.0	573.5	221.1	12.0	1.000015
40500.0	40.1	-56.6		64.5	573.3	233.9	15.8	1.000014
39000.0	39.2	-56.7		63.0	573.1	239.9	18.7	1.000014
37500.0	38.2	-56.7		61.5	573.1	244.1	21.5	1.000014
36000.0	37.3	-56.6		60.1	573.3	247.3	24.4	1.000013
34500.0	36.5	-56.5		58.0	573.5	240.8	24.7	1.000013
33000.0	35.6	-56.5		57.2	573.5	237.0	19.5	1.000013
31500.0	34.8	-56.2		55.8	573.8	221.0	15.2	1.000012
30000.0	33.9	-56.1		54.5	574.0	196.4	12.9	1.000012
28500.0	33.1	-55.9		53.2	574.2			1.000012
27000.0	32.4	-55.8		51.9	574.5			1.000011
25500.0	31.6	-55.7		50.0	574.5			1.000011
24000.0	30.9	-55.6		49.4	574.7			1.000011
22500.0	30.1	-55.4		48.2	574.0			1.000011

STATION ALTITUDE 4700.63 FEET MSL
2 NOV. 79 7930 HRS MSL
ASCENSION NO. 140

MANDATORY LEVELS
3050170140
AFSC
TABLE 6

GEODETIC COORDINATES
33.04686 LAT DEG
106.50581 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUMIDITY PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	5079.	7.8	-4.0	43.	9999.0	9999.0XX
800.0	6704.	3.0	-7.3	47.	9999.0	9999.0XX
750.0	8497.	-3	-10.7	45.	359.0	19.6
700.0	10214.	-1.2	-15.4	53.	334.2	12.6
650.0	12160.	-1.1	-15.6	52.	2.0	0.9
600.0	14249.	-3.2	-17.5	52.	314.7	14.9
550.0	16490.	-7.8	-21.5	32.	290.3	22.7
500.0	18507.	-13.2	-26.0	33.	293.0	29.7
450.0	21404.	-20.2	-32.6	32.	236.2	34.3
400.0	24222.	-26.1	-38.5	56.	274.0	36.2
350.0	27115.	-30.3	-34.2	71.	275.1	51.2
300.0	30039.	-40.2	-44.2	55.	271.3	56.4
250.0	34035.	-49.9			271.6	60.1
200.0	39350.	-55.9			273.9	80.5
175.0	42129.	-54.7			270.0	90.4
150.0	45347.	-57.9			279.0	87.9
125.0	48027.	-61.8			274.3	63.6
100.0	50530.	-64.0			277.0	50.7
80.0	56055.	-63.4			277.7	35.0
70.0	60740.	-64.0			270.9	20.8
50.0	63661.	-61.9			246.7	12.4
50.0	67614.	-55.2			270.3	16.0
40.0	72272.	-50.6			234.3	16.0
30.0	78271.	-55.4				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAY AZIMUTH AND ELEVATION ANGLES.